

# INTERNATIONAL SEARCH REPORT

**BEST AVAILABLE COPY**

International Application No  
PCT/CA2004/000824

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12Q1/68 C07D333/32 C12N15/11

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE, CHEM ABS Data, Sequence Search

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/081735 A (BOISSINOT MAURICE ; INFECTIO DIAGNOSTIC INC (CA); LECLERC MARIO (CA);) 17 October 2002 (2002-10-17) the whole document	1-36
X	HO HOANG-ANH, ET AL.,: "colorimetric and fluorometric detection of nucleic acids using cationic polythiophene derivatives" ANGEW. CHEM. INT. ED., vol. 41, no. 9, 1 May 2002 (2002-05-01), pages 1548-1551, XP002313846 cited in the application the whole document	1-36

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

18 January 2005

Date of mailing of the International search report

31/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Mueller, F

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA2004/000824

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EWBANK P C ET AL: "Amine functionalized polythiophenes: synthesis and formation of chiral, ordered structures on DNA substrates"  TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL,  vol. 42, no. 2,  8 January 2001 (2001-01-08), pages 155-157, XP004227724  ISSN: 0040-4039  see whole doc. esp. p.157, last par.</p>	
A	<p>BOCK L C ET AL: "SELECTION OF SINGLE-STRANDED DNA MOLECULES THAT BIND AND INHIBIT HUMAN THROMBIN"  NATURE, MACMILLAN JOURNALS LTD. LONDON, GB,  vol. 355, no. 6360,  6 February 1992 (1992-02-06), pages 564-566, XP000453533  ISSN: 0028-0836  see whole doc. esp. Table 1 and Fig 2</p>	
X,P	<p>HO HOANG A. &amp; LECLERC M.: "new colorimetric and fluorometric chemosensor based on a cationic polythiophene derivative for iodide-specific detection"  J. AM. CHEM. SOC.,  vol. 125, 22 March 2004 (2004-03-22),  pages 4412-4413, XP002313847  the whole document</p>	1-36
X,P	<p>HO HOANG-ANH &amp; LECLERC M.: "optical sensors based on hybrid aptamer/conjugated polymer complexes"  J. AM. CHEM. SOC.,  vol. 126, 15 January 2004 (2004-01-15),  pages 1384-1387, XP002313848  the whole document</p>	1-36
A	<p>US 5 631 146 A (SZOSTAK JACK W ET AL)  20 May 1997 (1997-05-20)  see esp. claims and seq id 82</p>	

**BEST AVAILABLE COPY****INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No  
PCT/CA2004/000824

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 02081735	A 17-10-2002	WO 02081735	A2 17-10-2002	
		CA 2442860	A1 17-10-2002	
		EP 1373246	A2 02-01-2004	
		JP 2004534013	T 11-11-2004	
		US 2004171001	A1 02-09-2004	
US 5631146	A 20-05-1997	NONE		